Claim Rejections:

Claims 1-8 are all of the claims pending in the present application and currently all of the claims stand rejected.

35 U.S.C. § 102(b) Rejection - Claims 1 and 2:

Claims 1 and 2 stand rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 4,665,354 to Sada et al. In view of the following discussion, Applicant respectfully traverses the above rejection.

Sada discloses a battery voltage regulator system for a vehicle charging system with a voltage control circuit. Specifically, Sada teaches a system containing a battery 3 connected in series with a key switch 4 and a charge lamp 5. "The output of the alternator 2 is also connected to [a terminal] of the battery 3 directly connected to [an] external T₃." Sada, col. 2, lines 52-54. The Examiner asserts that the resistor 141, shown in Figure 1, "limits current flowing through [the] light emitting element" and cites col. 6, lines 10-15 in support of this proposition. The Examiner also notes that the resistor 141 is positioned between the terminal T₃ (i.e. the lamp 5) and a transistor 140. *See* Figure 1.

However, Applicant respectfully disagrees with the Examiner, and submits that Sada fails to disclose each and every feature of the claimed invention. Specifically, in Sada, there are two transistors (i.e. transistors 122 and 140) which are serially connected to the input terminal T₃.

See e.g. Figure 1. Of these transistors, it is the transistor 122 which is used to turn on/off the light of the light emitting element (i.e. lamp 5). See Sada, col. 2, line 56 (indicating that the circuit 12 is the charge lamp drive circuit), see also col. 3, lines 30 to 40 (which is an expression

RESPONSE UNDER 37 C.F.R. § 1.111

U.S. Application No.: 09/688,350

Our Ref.: Q61020 Art Unit: 2834

of the structure of the charge lamp drive circuit, structured so that the transistor 122 is used to turn on/off the light 5). Comparatively, the transistor 140 is used to compensate for leakage current that flows in the input terminal T₃. See Sada, col. 2, line 60 (indicating that the circuit 14 is the malfunction circuit), and col. 3, line 67-col. 4, line 8 (which is an expression of the leakage current compensating circuit, where the transistor 140 is used for the leakage current compensating circuit), see also Figure 1.

In view of the foregoing discussion, it is apparent that "the resistor being disposed between the transistor 140 and input terminal T₃" (referenced by the Examiner in the Office Action, is not disposed between the transistor for lighting the lamp 5. In fact, the resistor cited by the Examiner in rejecting the present claims is used in the leakage current compensating circuit. *See* discussion above.

Stated differently, the resistor for limiting the flow of current to the lamp 5 is not disposed between the transistor 122 and the input terminal, but between a current leakage transistor 140 and the input terminal. Thus, Sada does not disclose each and every feature of the claimed invention. Namely, there is no disclosure of "a resistor for limiting a current flowing through [a] light emitting element, disposed between a transistor within said voltage control apparatus for lighting [the] light emitting element, and said input terminal." *See* claim 1. The transistor 140 is not used for lighting the lamp 5.

With regard to claim 2, Applicant disagrees that the lamp 5 is lighted by a current which is inputted into the terminal T₃ for starting an operation of the voltage control apparatus, as required by claim 2.

RESPONSE UNDER 37 C.F.R. § 1.111 Our Ref.: Q61020 U.S. Application No.: 09/688,350 Art Unit: 2834

In view of the foregoing discussion, Applicant submits that Sada fails to disclose each and every feature of the claimed invention, as set forth in claims 1 and 2. Therefore, Sada fails to anticipate the claimed invention as required under the provisions of 35 U.S.C. § 102(b). Accordingly, Applicant hereby requests the Examiner reconsider and withdraw the above 35 U.S.C. § 102(b) rejection of these claims.

35 U.S.C. § 103(a) Rejection - Claims 6 and 7:

Claims 6 and 7 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sada in view of U.S. Patent No. 4,687,983 to Beyn. However, as claims 6 and 7 depend on claims 1 and 2, respectively, and because Beyn fails to cure the deficient teachings of Sada, with respect to these claims, Applicant submits that these claims are also allowable, at least by reason of their dependence.

35 U.S.C. § 103(a) Rejection - Claim 4:

Claim 4 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Sada in view of U.S. Patent No. 4,642,548 to Mashino. In view of the following discussion, Applicant respectfully traverses the Examiner's above rejection of claim 4.

The Examiner admits that Sada does not teach or suggest having a voltage detection circuit for detecting the voltage at the input terminal T₃, as required by claim 4. In an effort to cure this deficient teaching, the Examiner relies on Mashino.

Mashino discloses a control apparatus for controlling the shut-off or interruption of an excitation current supplied to a field winding. The system includes both a power transistor and a voltage detection circuit, where the detection circuit controls the on-off of the power transistor

- 4 -

Our Ref.: Q61020 U.S. Application No.: 09/688,350 Art Unit: 2834

depending on the voltage generated by a charging generator. See Abstract and Figure 1. In view of this disclosure, Applicant submits Mashino has little or no relevance to claim 4, and one of ordinary skill in the art would not have been motivated to combine the teachings of Mashino with Sada.

Specifically, the voltage detection circuit in Mashino only monitors the terminal L, which is connected to the diodes 6. There is no voltage detection circuit monitoring the voltage at the terminal IG, which allegedly corresponds to the "input terminal" of claim 4. Thus, even if one were to combine Mashino with Sada, the resultant combination would have no voltage detection circuit, as that set forth in claim 4. Specifically, even if it were assumed that it would have been obvious to combine the references (which is not Applicant's position), the resultant combination would fail to disclose, teach or suggest a "circuit for detecting the voltage of [the] input terminal and starting [a] voltage control apparatus, [the] circuit being arranged to be shutdown after [the] vehicle generator starts electric power generation operation." See claim 4. Neither of the references teaches a circuit to monitor a voltage of an input terminal for inputting a voltage of a battery through an ignition switch and a light emitting element connected in series with the ignition switch. See claim 4.

In view of the foregoing, Applicant submits that neither of the Sada or Mashino references, taken individually or in combination, teach or suggest each and every feature of the present invention, as set forth in claim 4. Therefore, the Examiner has failed to establish a prima facie case of obviousness with respect to claim 4, as required under the provisions of 35 U.S.C. § RESPONSE UNDER 37 C.F.R. § 1.111

U.S. Application No.: 09/688,350

Our Ref.: Q61020 Art Unit: 2834

103(a). Accordingly, Applicant hereby requests the Examiner reconsider and withdraw the

above 35 U.S.C. § 103(a) rejection of this claim.

35 U.S.C. § 103(a) Rejection - Claim 8

Claim 8 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Sada in

view of Mashino and in further view of Beyn. However, as claim 8 depends on claim 4, and

because Beyn fails to cure the deficient teachings of Sada and Mashino, with respect to claim 4,

Applicant hereby submits that claim 8 is also allowable, at least by reason of its dependence.

Conclusion:

In view of the above, reconsideration and allowance of this application are now believed

to be in order, and such actions are hereby solicited. If any points remain in issue which the

Examiner feels may be best resolved through a personal or telephone interview, the Examiner is

kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue

Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any

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Respectfully submitted

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- 6 -